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## NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

02/02/2009

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

HUBER, PAUL W

ART UNIT PAPER NUMBER

2627 DATE MAILED: 02/02/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579.823	05/17/2006	Takuva Tsukagoshi	128088	5951

TITLE OF INVENTION: HOLOGRAPHIC MULTIPLEX RECORDING METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/04/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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25944 7590 02/02/2009 OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850				Carr	tificato	of Mailing or Trans	<b>mission</b> deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
			_				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/579,823	05/17/2006		Takuya Tsukagoshi			128088	5951
		LTIPLEX RECORDING					
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nonprovisional	NO	\$1510	\$300	\$0 •		\$1810	05/04/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
HUBER,		2627	369-103000				
<ul> <li>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>1. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>1. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ul>			(1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be	For printing on the patent front page, list ) the names of up to 3 registered patent attorneys agents OR, alternatively, ) the name of a single firm (having as a member a gistered attorney or agent) and the names of up to registered patent attorneys or agents. If no name is sted, no name will be printed.			
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	(B) RESIDENCE: (CITY	atent. If an assign assignment. 7 and STATE OR C	COUNT	RY)	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	rporatio	on or other private gro	up entity 🗖 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			b. Payment of Fee(s): (Plea	rd. Form PTO-2038  7 authorized to char	is atta	ched. equired fee(s), any del	
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OLIFF & BERRIDGE, PLC			HUBER, PAUL W		
P.O. BOX 320850			ART UNIT	PAPER NUMBER	
ALEXANDRIA, VA 22320-4850			2627		
			DATE MAILED: 02/02/200	g.	

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 566 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 566 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/579,823	TSUKAGOSHI ET AL.
Notice of Allowability	Examiner	Art Unit
	Paul Huber	2627
	Paul Huber	2621
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate com IGHTS. This application i	o in this application. If not included munication will be mailed in due course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>the papers filed May</u>	<u>17, 2006</u> .	
2. The allowed claim(s) is/are <u>1-3</u> .		
3. ☑ Acknowledgment is made of a claim for foreign priority unallocation a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have		d) or (f).
2. ☐ Certified copies of the priority documents have		ition No.
3. ☑ Copies of the certified copies of the priority do	• • • • • • • • • • • • • • • • • • • •	
International Bureau (PCT Rule 17.2(a)).		от по постанова сторе организация и постанова
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		file a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Rev	iew ( PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
<ul><li>(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date</li></ul>	s Amendment / Comment	or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 🗖 Notice of	Informal Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),
	Paper N	o./Mail Date
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	/. 🔼 Examine	r's Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		r's Statement of Reasons for Allowance
	9. 🔲 Other	
/Paul Huber/		
Primary Examiner, Art Unit 2627		

#### **EXAMINER'S AMENDMENT AND REASONS FOR ALLOWANCE**

Page 2

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the specification, page 1, between the title and "Technical Field", the following paragraph was inserted:

This application is a 371 of PCT/JP04/16329, filed November 4, 2004. --.

The following is an examiner's statement of reasons for allowance: the prior art of record considered as a whole fails to teach or suggest a holographic multiplex recording method for forming recording spots, which are an overlapping projection region of an object beam and a reference beam, so as to be superimposed with a slight shift relative to one another in an X-axis direction and a Y-axis direction when interference fringes are formed in a recording layer in a holographic recording medium by projecting the object beam and the reference beam, the holographic multiplex recording method comprising: a Y-axis direction first multiplex recording step of forming a Yaxis direction first recording spot matrix by arranging first-stage recording spot rows comprising recording spots arranged with a constant pitch in the X-axis direction without overlapping, in the Y-axis direction with a slight phase shift relative to one another; a Y-axis direction second multiplex recording step of forming a Y-axis direction second multiplex recording spot matrix by arranging second-stage recording spot rows comprising recording spots arranged with a constant pitch in the X-axis direction without overlapping with reference to a position slightly phase-shifted in the X-axis direction with respect to the first-stage recording spot rows, in the Y-axis direction with a slight phase shift relative to one another; and a step of forming a Y-axis direction third multiplex recording spot matrix to a Yaxis direction last multiplex recording spot matrix by repeating a step which is similar to the above until immediately before the total sum of the phase shift in the X-axis direction from the Y-axis direction first multiplex recording spot matrix to a Y-axis direction last multiplex recording spot matrix becomes the same as the pitch between the recording spot rows in the X-axis direction. (bold language emphasized).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2627

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Huber whose telephone number is 571-272-7588.

/Paul Huber/ Primary Examiner, Art Unit 2627 Page 3

pwh January 28, 2009